	Application No.	Application No. Applicant(s)	
	09/943,085	HIRANO ET AL.	
Notice of Allowability	Examiner	Art Unit	
	George Y. Wang	2871	
The MAILING DATE of this communication apperature All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	ears on the cover sheet wi (OR REMAINS) CLOSED ir or other appropriate commu IGHTS. This application is s and MPEP 1308.	th the correspondence address n this application. If not included unication will be mailed in due course. THIS	ve
1. This communication is responsive to <u>Applicant's Amendment</u>	ent filed February 5, 2004.		
2. The allowed claim(s) is/are 1.4.5.7 and 8.			
3. $\boxtimes$ The drawings filed on <u>31 August 2001</u> are accepted by the	Examiner.		
<ul> <li>4.  Acknowledgment is made of a claim for foreign priority una)  All b)  Some* c)  None of the: <ol> <li>Certified copies of the priority documents have</li> <li>Certified copies of the priority documents have</li> <li>Copies of the certified copies of the priority do International Bureau (PCT Rule 17.2(a)).</li> </ol> </li> <li>* Certified copies not received:</li> </ul>	e been received. e been received in Applicatio	n No	
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	of this communication to file IENT of this application.	a reply complying with the requirements	
5. A SUBSTITUTE OATH OR DECLARATION must be subminformal PATENT APPLICATION (PTO-152) which give	itted. Note the attached EXA	MINER'S AMENDMENT or NOTICE OF declaration is deficient.	
6. CORRECTED DRAWINGS (as "replacement sheets") mus  (a) including changes required by the Notice of Draftspers  1) hereto or 2) to Paper No./Mail Date  (b) including changes required by the attached Examiner's Paper No./Mail Date  Paper No./Mail Date  Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in the paper No./Mail DEPOSIT OF and/or INEODMATION about the dame.	son's Patent Drawing Review . s Amendment / Comment or .84(c)) should be written on the header according to 37 CF	in the Office action of ne drawings in the front (not the back) of R 1.121(d).	
<ol> <li>DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT</li> </ol>	SIT OF BIOLOGICAL MATE FOR THE DEPOSIT OF BIO	ERIAL must be submitted. Note the DLOGICAL MATERIAL.	
Attachment(s)  1. ☐ Notice of References Cited (PTO-892)  2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)  3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date	6. ☐ Interview St Paper No./ 8), 7. ☐ Examiner's	formal Patent Application (PTO-152)  Jummary (PTO-413),  Mail Date  Amendment/Comment  Statement of Reasons for Allowance	

## **DETAILED ACTION**

## Allowable Subject Matter

1. Claims 1, 4, 5, and 7-8 are allowed.

The following is an examiner's statement of reasons for allowance: As the claims were read and interpreted in light of the specification, the prior art of record fails to specifically disclose an X-ray generating apparatus having an X-ray tube within a housing sealed into vacuum for generating an X-ray including a grid voltage control, a pulse generator that changes an OFF state to an ON state and keeps the ON state for a predetermined period of time, an X-ray imaging apparatus that receives the pulse generated by the pulse generating means, an X-ray inspection system possessing the aforementioned x-ray generator, such that when the pulse generator has a trigger signal outputting means for outputting a trigger signal according to the detection of the object and where the imaging means receives the pulse outputted from the pulse generator and captures the X-ray transmission image when the pulse is in the ON state, and, in particular, an operational amplifier having one input for inputting a voltage generated by the cathode current detecting resistor and the other input terminal for inputting a predetermined negative voltage or a reference voltage and that in response to a generated pulse, the grid voltage control applies a cutoff voltage to the grid electrode when pulse is in the OFF state so as to prevent electron emitted from the cathode from reaching the anode target and applies a grid operating voltage by a cathode current detecting means that detects a cathode current and is adjusted such that the electron

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emitted from the cathode so as to bombard the anode target attains a predetermined amount of quantity when the pulse is in the ON state.

- 2. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."
- 3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to George Y. Wang whose telephone number is 571-272-2304. The examiner can normally be reached on M-F, 8 am 4:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert H. Kim can be reached on 571-272-2293. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

ROWAT M. KCAA SUPERVISION PARTITUM PARAMER TECKNOLOGY CENTER 2800 Application/Control Number: 09/943,085

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